



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**1200 Pennsylvania Avenue, N.W.**  
**WASHINGTON, D.C. 20460**

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the complete form to this address.

**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Consus Chemicals, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. Ct. NW, Gig Harbor, WA (253) 853-7369	EPA Registration Number/File Symbol/ 86828-
Active Ingredient(s) and/or representative test compound(s) Glufosinate-ammonium	Date May. 01, 2018
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) TGA1	Product Name Consus Glufosinate Technical

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statements (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have including with this form a list of companies send offer of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT** (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
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**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (II) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

Date

May. 01, 2018

Typed or Printed Name and Title

Ann M. Tillman | Agent

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## DATA MATRIX

Date May 1, 2018	EPA Reg No./File Symbol 86828-L	Page 1 of 28
Applicant's/Registrant's Name & Address Consus Chemicals, LLC 22 Pine Tree Drive Wayne, NJ 07470	Product Consus Glufosinate Technical	

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>Product Specific Data</b>					
830.1550	Product Identity and Composition	50089801	Consus Chemicals, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	50089801	Consus Chemicals, LLC	OWN	
830.1620	Description of Production Process	50089801	Consus Chemicals, LLC	OWN	
830.1650	Description of Formulation Process				Not Required <sup>1</sup>
830.1670	Discussion of Formation of Impurities	50089801	Consus Chemicals, LLC	OWN	
830.1700	Preliminary Analysis	50089802	Consus Chemicals, LLC	OWN	
830.1750	Certified Limits	50089801			
830.1800	Enforcement Analytical Method	50089804	Consus Chemicals, LLC	OWN	
		50089803	Consus Chemicals, LLC	OWN	
830.6302	Color	50089805	Consus Chemicals, LLC	OWN	
830.6303	Physical State	50089805	Consus Chemicals, LLC	OWN	
830.6304	Odor	50089805	Consus Chemicals, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	50089805	Consus Chemicals, LLC	OWN	Data
		50089806	Consus Chemicals, LLC	OWN	Waiver <sup>2</sup>
830.6314	Oxidation/Reduction: Chemical Incompatibility	50089805	Consus Chemicals, LLC	OWN	
830.6315	Flammability	50089806	Consus Chemicals, LLC	OWN	Waiver <sup>3</sup>
830.6316	Explosibility	50089806	Consus Chemicals, LLC	OWN	Waiver <sup>4</sup>

Signature 	Name and Title Ann M. Tillman, Agent	Date May 1, 2018
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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6317	Storage Stability	50089805	Consus Chemicals, LLC	OWN	
830.6319	Miscibility	50089806			Not Required <sup>5</sup>
830.6320	Corrosion Characteristics	50089805	Consus Chemicals, LLC	OWN	
830.6321	Dielectric Breakdown Voltage	50089806			Not Required <sup>5</sup>
830.7000	pH	50089805	Consus Chemicals, LLC	OWN	
830.7050	UV/Visible Absorption	50089805	Consus Chemicals, LLC	OWN	
830.7100	Viscosity	50089806			Not Required <sup>5</sup>
830.7200	Melting Point/Melting Range	50089805	Consus Chemicals, LLC	OWN	
830.7220	Boiling Point/Boiling Range	50089806			Not Required <sup>6</sup>
830.7300	Density/Relative Density/Bulk Density	50089805	Consus Chemicals, LLC	OWN	
830.7370	Dissociation Constants in Water	50089806	Consus Chemicals, LLC	OWN/PL	
830.7520	Particle size, fiber length, diameter distribution	50089806	Consus Chemicals, LLC	OWN	Waiver <sup>5</sup>
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50089806	Consus Chemicals, LLC	OWN/PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	50089806	Consus Chemicals, LLC	OWN/PL	

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Consus Chemicals, LLC  
22 Pine Tree Drive  
Wayne, NJ 07470

Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50089806	Consus Chemicals, LLC	OWN/PL	
870.1100	Acute Oral Toxicity: Rat	50089807	Consus Chemicals, LLC	OWN	
870.1200	Acute Dermal Toxicity: Rat	50089808	Consus Chemicals, LLC	OWN	
870.1300	Acute Inhalation Toxicity: Rat	50089809	Consus Chemicals, LLC	OWN	
870.2400	Primary Eye Irritation: Rabbit	50089810	Consus Chemicals, LLC	OWN	
870.2500	Primary Dermal Irritation	50089811	Consus Chemicals, LLC	OWN	
870.2600	Dermal Sensitization	50089812	Consus Chemicals, LLC	OWN	
<b>Generic Data</b>					
850.2100	Acute Avian Oral Toxicity	00142450 00142451		OLD OLD	See endnote/ Not required <sup>7</sup>
850.2200	Acute Avian Dietary Toxicity	00150988 00150989		OLD OLD	See endnote <sup>8</sup>
850.2400	Wild Mammal Toxicity				Not required; see 870 series
850.2300	Avian Reproductive Toxicity	40345649 40345650		OLD OLD	See endnote <sup>9</sup>

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00142454 00142455 00144338 00159913 00159914		OLD OLD OLD OLD OLD	See endnote <sup>10</sup>
850.1010	Freshwater Invertebrate Toxicity	00142456 00159915 00144339 00145067		OLD OLD OLD OLD	See endnote <sup>11</sup>
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	41396104 41396108 41396107 41396110 41396105 41396109 42262403		OLD OLD OLD OLD OLD OLD OLD	See endnote <sup>12</sup>
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	40501010		OLD	See endnote <sup>13</sup>
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required <sup>14</sup>

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Consus Chemicals, LLC  
22 Pine Tree Drive  
Wayne, NJ 07470

Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1400	Fish Early Life Stage (Freshwater)				Not required <sup>15</sup>
850.1400	Fish Early Life Stage (Saltwater)				Not required <sup>16</sup>
850.1500	Life Cycle Fish				Not required <sup>17</sup>
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	40501017 41323130		OLD OLD	See endnote <sup>18</sup>
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
850.3020	Honey Bee Acute Contact Toxicity	41364002 40345654		OLD OLD	See endnote <sup>19</sup>
850.3030	Honeybee Toxicity of Residues on Foliage				Not required
850.3040	Field Testing for Pollinators				Not required
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	45190703 45190704 45190701 45190702		OLD OLD OLD OLD	See endnote <sup>20</sup>

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3100	90-Day Oral: Rodent	45179103 40345609 44076206 44076207 44076201 44076202 44076203 44068501		OLD OLD OLD OLD OLD OLD OLD OLD	See endnote <sup>21</sup>
870.3150	90-Day Oral: Non-Rodent	40345608 44068502		OLD OLD	See endnote <sup>22</sup>
870.3200	21/28-Day Dermal Toxicity	40345605		OLD	
370.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	40345606 47058101	Bayer CropScience LP	OLD PAY	See endnote <sup>23</sup>
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	45179101 45179102 45297001		OLD OLD OLD	See endnote <sup>24</sup>

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4100	Chronic Oral Rodent	44539501 40345607 41144701		OLD OLD OLD	See endnote <sup>25</sup>
870.4200	Carcinogenicity	44539501 40345607 41144701 40345609 41144702		OLD OLD OLD OLD OLD	See endnote <sup>26</sup>
870.3700	Reproduction/Developmental Toxicity Screening Test	00142445 00142446 40345611 41144703 44076209 44076204 44076205 43829405		OLD OLD OLD OLD OLD OLD OLD OLD	See endnote <sup>27</sup>
870.3800	2-Generation Reproduction: Rat	40345612		OLD	See endnote <sup>28</sup>
870.6300	Developmental Neurotoxicity Study	46455701	Bayer CropScience LP	PAY	See endnote <sup>29</sup>
870.5100	Bacterial Reverse Mutation Test	00142440 (AC072962)		OLD	See endnote <sup>30</sup>

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Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5300, 830.5375	<i>In vitro</i> Mammalian Cell Assay	40345616		OLD	See endnote <sup>31</sup>
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	41144704 00142441 (AC072962) 40345614		OLD OLD OLD	See endnote <sup>32</sup>
870.7485	Metabolism and Pharmacokinetics	43766913 43766914 43778402 40345640 43766913 40345642		OLD OLD OLD OLD OLD OLD	See endnote <sup>33</sup>
370.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	40345620 45922103	Bayer CropScience LP	OLD PAY	See endnote <sup>34</sup>
870.7800	Immunotoxicity	48491101	Bayer CropScience LP	PAY	See endnote <sup>35</sup>
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure Task Force	PER	See endnote <sup>36</sup>
875.1200	Dermal Exposure – Indoor				Not required

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure Task Force	PER	See endnote <sup>36</sup>
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure Task Force	PER	See endnote <sup>36</sup>
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure Task Force	PER	See endnote <sup>36</sup>
875.1700	Product Use Information		Agricultural Handlers Exposure Task Force	PER	See endnote <sup>36</sup>
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues			GAP	See endnote <sup>37</sup>

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Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

875.2200	Soil Residue Dissipation	44802601		OLD	
		45005901		OLD	
		45005902		OLD	
		45005903		OLD	
		45005904		OLD	
		45005905		OLD	
		45005906		OLD	
		45005907		OLD	
		45005908		OLD	
		45005909		OLD	
		45005910		OLD	
		45005911		OLD	
		45138201		OLD	
		45138202		OLD	
		45175101		OLD	
		45175102		OLD	
		45175103		OLD	
		45175104		OLD	
		45175105		OLD	
		45191701		OLD	
		45224801		OLD	
		45344501		OLD	
		45432301		OLD	
		45432302		OLD	

Signature



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Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

875.2200	Soil Residue Dissipation (cont'd)	45432303		OLD	
		45469501		OLD	
		45469502		OLD	
		45480301		OLD	
		45480302		OLD	
		45491901		OLD	
		45491902		OLD	
		45491903		OLD	
		45491904		OLD	
		45491905		OLD	
		45530101		OLD	
		45530102		OLD	
		45530103		OLD	
		45574001		OLD	
		45726301	Agricultural Reentry Task Force	PAY	
		45726302	Agricultural Reentry Task Force	PAY	
		46040301	Agricultural Reentry Task Force	PAY	
		46040302	Agricultural Reentry Task Force	PAY	
		46405901	Agricultural Reentry Task Force	PAY	
		46513901	Agricultural Reentry Task Force	PAY	
		46734001	Agricultural Reentry Task Force	PAY	
		46734002	Agricultural Reentry Task Force	PAY	
		46789301	Agricultural Reentry Task Force	PAY	
		46789302	Agricultural Reentry Task Force	PAY	

Signature



Name and Title

Ann M. Tillman, Agent

Date

May 1, 2018



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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2200	Soil Residue Dissipation (cont'd)	48866801	Agricultural Reentry Task Force	PAY	
		49157401	Agricultural Reentry Task Force	PAY	
		49157402	Agricultural Reentry Task Force	PAY	
		49299201	Agricultural Reentry Task Force	PAY	
		49309201	Agricultural Reentry Task Force	PAY	
875.2300	Indoor Surface Residue Dissipation				Not required
875.2400	Dermal Exposure				See 875.2200
875.2500	Inhalation Exposure				See 875.2200
875.2600	Biological Monitoring				See 875.2200
875.2700	Product Use Information				See 875.2200
875.2800	Descriptions of Human Activity				See 875.2200
875.2900	Data Reporting and Calculations				See 875.2200
875.3000	Nondietary Ingestion Exposure				See 875.2200

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum	42565901		OLD	
		42608401		OLD	
		42907401		OLD	
		43254001		OLD	
		43485601		OLD	
		43485602		OLD	
		43485603		OLD	
		43485604		OLD	
		43493801		OLD	
		43493802		OLD	
		43508001		OLD	
		43535801		OLD	
		43535802		OLD	
		43657601		OLD	
		43657602		OLD	
		43665401		OLD	
		43665402		OLD	
		43757801		OLD	
		43757802		OLD	
		43766501		OLD	
		43766502		OLD	
		43766503		OLD	
		43766504		OLD	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

201-1	Droplet Size Spectrum (cont'd)	43781101	OLD	
		43803501	OLD	
		43832101	OLD	
		43832102	OLD	
		43845501	OLD	
		43845901	OLD	
		43925701	OLD	
		43953001	OLD	
		43953002	OLD	
		44010201	OLD	
		44070001	OLD	
		44100901	OLD	
		44134101	OLD	
		44178701	OLD	
		44310401	OLD	
		44640801	OLD	
		44640901	OLD	
		44641001	OLD	
		44696901	OLD	
		44747401	OLD	
		44763001	OLD	
		44878601	OLD	
		44908901	OLD	
		45536001	OLD	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
202-1	Droplet Size Spectrum				See 201-1
850.4100	Tier 1: Seedling Emergence	41396111 48531301 48718501	Bayer CropScience LP Bayer CropScience LP	OLD PAY PAY	See endnote <sup>38</sup>
850.4150	Tier 1: Vegetative Vigor	41396112 41396113 47542602	Bayer CropScience LP	OLD OLD PAY	See endnote <sup>39</sup>
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	42262404 40345653 48444816 47542603 48444817	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	OLD OLD PAY PAY PAY	See endnote <sup>40</sup>
850.4100	Tier 2: Seedling Emergence	41396111 48531301 48718501	Bayer CropScience LP Bayer CropScience LP	OLD PAY PAY	See endnote <sup>38</sup>
850.4150	Tier 2: Vegetative Vigor	41396112 41396113 47542602	Bayer CropScience LP	OLD OLD PAY	See endnote <sup>39</sup>

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22 Pine Tree Drive  
Wayne, NJ 07470

Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	42262404	Bayer CropScience LP	OLD	See endnote <sup>40</sup>
		40345653		OLD	
		48444816		PAY	
		47542603		PAY	
		48444817		PAY	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	40345656		OLD	See endnote <sup>41</sup>
835.2240	Photodegradation in Water	40345657		OLD	See endnote <sup>42</sup>
		41323115		OLD	
835.2410	Photodegradation in Soil	40345658		OLD	See endnote <sup>43</sup>
		41920102		OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	40345659		OLD	See endnote <sup>44</sup>
		41323118		OLD	
		41323119		OLD	
		41920103		OLD	

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Product

Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4200	Anaerobic Soil Metabolism	40501014 41323119 41920103 41323120		OLD OLD OLD OLD	See endnote <sup>45</sup>
835.4300	Aerobic Aquatic Metabolism	40345660 45204401 45204402		OLD OLD OLD	See endnote <sup>46</sup>
835.4400	Anaerobic Aquatic Metabolism	46258601	Bayer CropScience LP	PAY	See endnote <sup>47</sup>
835.1230	Leaching/Adsorption/Desorption	40345662 41323121		OLD OLD	See endnote <sup>48</sup>
835.1410	Volatility – Laboratory	41323122 41920104		OLD OLD	See endnote <sup>49</sup>
835.8100	Volatility – Field				Not required

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6100	Soil Field Dissipation Study	40345663 40345664 40345665 41323124 43110402 43766915 43766916		OLD OLD OLD OLD OLD OLD OLD	See endnote <sup>50</sup>
835.6200	Aquatic Sediment Field Dissipation Study	45204403		OLD	See endnote <sup>51</sup>
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
350.6100	Environmental Chemistry Methods	40345666 41323123 41920106 43766915 47542606 47542607 49055301	Bayer CropScience LP Bayer CropScience LP Bayer CropScience LP	OLD OLD OLD OLD PAY PAY PAY	See endnote <sup>52</sup>

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	40501001		OLD	
		40501002		OLD	
		41323109		OLD	
		41323129		OLD	
		41323107		OLD	
		43515602		OLD	
		43515603		OLD	
		44358601		OLD	
		44358605		OLD	
		44358606		OLD	
		44358607		OLD	
860.1300	Nature of the Residue: Livestock	40345645		OLD	
		40345646		OLD	
		43766918		OLD	
		43766919		OLD	
		41323110		OLD	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1850	Confined Rotational Crops	00142471		OLD	
		00157818		OLD	
		40501015		OLD	
		41323125		OLD	
		41323126		OLD	
		41920105		OLD	
		43766917		OLD	
860.1340	Residue Analytical Methods	40345666	IR-4	OLD	
		41095802		OLD	
		41323113		OLD	
		42121905		OLD	
		42523602		OLD	
		42523603		OLD	
		43515604		OLD	
		43524601		OLD	
		43612302		OLD	
		44903201		OLD	
		44973001		OLD	
		45137001		OLD	
		47828203		PL	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1360	Multiresidue Method	43515605 43766920		OLD OLD	
860.1380	Storage Stability	44827901 45782201 48201502	Bayer CropScience LP Bayer CropScience LP	OLD PAY PAY	
860.1500	Magnitude of the Residue in Plants: bananas	42121901 42121902 42121903 42121904		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: berry crop subgroup 13B, including salal	45580201 47035701	Bayer CropScience LP	OLD PAY	
860.1500	Magnitude of the Residue in Plants: canola	44358605 44358608 44358609 44358610 48976701 48976702 48976703	Bayer Crop Science LP Bayer Crop Science LP Bayer Crop Science LP	OLD OLD OLD OLD PAY PAY PAY	
860.1500	Magnitude of the Residue in Plants: citrus crop group 10-10	47915701	Bayer Crop Science LP	PAY	

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Consus Glufosinate Technical

Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: corn (field and sweet)	40501004	IR-4 IR-4 Bayer CropScience LP	OLD	
		43515606		OLD	
		43515608		OLD	
		43766923		OLD	
		43766926		OLD	
		44033302		OLD	
		44425201		OLD	
		44425202		OLD	
		47828201		PL	
		47828202		PL	
		49963402		PAY	
860.1500	Magnitude of the Residue in Plants: cotton	45089301		OLD	
		45089302		OLD	
		45089303		OLD	
860.1500	Magnitude of the Residue in Plants: grapes	40501007			
860.1500	Magnitude of the Residue in Plants: olives	47915704	Bayer CropScience LP	PAY	
860.1500	Magnitude of the Residue in Plants: pome fruit crop group 11-10	40501006	Bayer CropScience LP	OLD	
		47915702		PAY	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: soybeans	40501003 43515607 43515609 43766924 43766925 48205501 49963401	Bayer CropScience LP Bayer CropScience LP	OLD OLD OLD OLD OLD PAY PAY	
860.1500	Magnitude of the Residue in Plants: stone fruit crop group 12-12	47915703	Bayer CropScience LP	PAY	
860.1500	Magnitude of the Residue in Plants: sugar beets	44358602 44358603 44358604		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tree nut crop group 14 (including pistachios)	40501005 49974601	Bayer CropScience LP	OLD PAY	
860.1500	Magnitude of the Residue in Plants: potatoes (vine desiccation)	44358611 44358612 44583901		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: canola	44358610 48976702	Bayer CropScience LP	OLD PAY	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus	47915706	Bayer CropScience LP	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	40501004 43515608 43766926 44033302		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	45089302		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: grapes	40501007		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: olives	47915708	Bayer CropScience LP	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: pome fruits	40501006		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	40501003 43515609 43766927		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: stone fruits	47915707 47915705	Bayer CropScience LP Bayer CropScience LP	PAY PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugar beets	44358604		OLD	

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Ingredient Glufosinate-ammonium (CAS No. 77182-82-2)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: potatoes	44358612		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	41323111 41323112 43766921 43766922		OLD OLD OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	40501015 40501016 41323127 41323128 45644901 46573701	Bayer CropScience LP	OLD OLD OLD OLD OLD PAY	

Signature 	Name and Title Ann M. Tillman, Agent	Date May 1, 2018
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## Endnotes for Consus Glufosinate Technical Data Matrix

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- <sup>1</sup> **830.1650** - These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- <sup>2</sup> **830.6313** - Consus Chemicals, LLC is requesting a waiver from the stability to metal and metal ions. Consus Glufosinate Technical is not packaged or stored in contact with metals or metal ions. Data for stability was generated and is reported in MRID 50089805.
- <sup>3</sup> **830.6315** - Consus Chemicals, LLC requests a waiver from this data requirement because glufosinate-ammonium is a solid and is not expected to be flammable.
- <sup>4</sup> **830.6316** - Consus Chemicals, LLC requests a waiver from this data requirement because glufosinate-ammonium does not have the chemical bonds or functional groups associated with explosive chemicals.
- <sup>5</sup> **830.6319, 830.6321, 830.7100, 830.7520** - Consus Glufosinate Technical is a solid and not an emulsifiable concentrate and is not to be diluted with petroleum solvents. Therefore, miscibility data are not required for this technical. Consus Glufosinate Technical is not to be used around electrical equipment and data for dielectric breakdown constant are not required. Consus Glufosinate Technical is a solid and not a liquid, therefore, viscosity data are not required for this product. Consus Chemicals, LLC requests a waiver for particle size, fiber length and diameter distribution because Consus Glufosinate Technical is not water insoluble nor is it a fibrous material.
- <sup>6</sup> **830.7220** - Consus Glufosinate Technical is a solid and boiling point data are not required for solids. Data for melting point are required for solids. See Guideline 830.7200.
- <sup>7</sup> **850.2100** - The studies cited are acceptable and satisfy the data requirement as per the Sept. 12, 2014 Environmental Fate and Ecological Risk Assessment for the Registration Review of Glufosinate (EFED RA). The EFED RA states that passerine data have not been submitted, nor were data required in the Registration Review DCI.
- <sup>8</sup> **850.2200** - The studies cited are acceptable and satisfy the data requirement as per the EFED RA.
- <sup>9</sup> **850.2300** - The studies cited are acceptable and satisfy the data requirement as per the EFED RA. More recently submitted bobwhite quail data are not cited as these data are duplicative of data that satisfy the data requirement and were not called-in by EPA in the Registration Review DCI.
- <sup>10</sup> **850.1075** - The studies cited are acceptable or supplemental and satisfy the data requirement as per the EFED RA. More recently submitted rainbow trout data are not cited as these data are duplicative of data that satisfy the data requirement and were not called-in by EPA in the Registration Review DCI.
- <sup>11</sup> **850.1010** - The studies cited are acceptable or supplemental and satisfy the data requirement as per the EFED RA. More recently submitted daphnia data are not cited as these data are duplicative of data that satisfy the data requirement and were not called-in by EPA in the Registration Review DCI.
- <sup>12</sup> **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** - The studies cited are acceptable or supplemental and satisfy the data requirement as per the EFED RA.
- <sup>13</sup> **850.1300** - The study cited is acceptable and satisfies the data requirement as per the EFED RA. More recently submitted daphnia data are not cited as these data are duplicative of data that satisfy the data requirement and were not called-in by EPA in the Registration Review DCI.
- <sup>14</sup> **850.1350** - The EFED RA states that these data have not been submitted nor are required for Registration Review.
- <sup>15</sup> **850.1400** - The EFED RA states that these data have not been submitted nor are required for Registration Review.
- <sup>16</sup> **850.1400** - The EFED RA states that these data have not been submitted nor are required for Registration Review.
- <sup>17</sup> **850.1500** - The EFED RA states that these data have not been submitted nor are required for Registration Review.
- <sup>18</sup> **850.1710, 850.1730, 850.1850** - The studies cited are acceptable or supplemental and satisfy the data requirement as per the EFED RA.



## Endnotes for Consus Glufosinate Technical Data Matrix

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- <sup>19</sup> **850.3020** – The studies cited are acceptable and satisfy the data requirement as per the EFED RA. Note: the June 2016 Glufosinate Ammonium Proposed Interim Registration Review Decision (Interim Decision) noted that pollinator data were considered a data gap and would be called-in at a later date. Since the DCI has not been issued, these data requirements are not currently identified as a data gap. Note: MRID 41364002 does not appear to be conducted on a relevant chemical.
- <sup>20</sup> **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the July 25, 2012 Glufosinate Ammonium Updated Human Health Risk Assessment for the Proposed New Use of Glufosinate Ammonium in/on Citrus Fruit (Crop Group 10), Pome Fruit (Crop Group 11), Stone Fruit (Crop Group 12), Olives and Sweet Corn (DP Barcode D387413) (2012 Human Health RA).
- <sup>21</sup> **870.3100** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>22</sup> **870.3150** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA. Note: chronic data were used to satisfy subchronic data requirements.
- <sup>23</sup> **870.3465** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>24</sup> **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA. Unacceptable data were not cited.
- <sup>25</sup> **870.4100** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>26</sup> **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>27</sup> **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA. Unacceptable data were not cited.
- <sup>28</sup> **870.3800** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA.
- <sup>29</sup> **870.6300** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA.
- <sup>30</sup> **870.5100** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA.
- <sup>31</sup> **870.5300, 830.5375** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA. Note: MRID 40345616 was incorrectly cited as 40445616. The correct study is cited here.
- <sup>32</sup> **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>33</sup> **870.7485** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA.
- <sup>34</sup> **870.7600** – The studies cited are acceptable and satisfy the data requirement as per the 2012 Human Health RA. Recent, voluntarily submitted data ("triple pack" data) were not cited as these data were not required in the DCI and EPA stated in the Oct. 29, 2013 Glufosinate Ammonium Response to Comments on the Human Health Risk Assessment for Registration Review (HED Response to Comments) that these data would not be utilized to further refine human dermal risk assessments.
- <sup>35</sup> **870.7800** – The study cited is acceptable and satisfies the data requirement as per the 2012 Human Health RA (Note: study was not referenced by MRID number but was referenced by subject).
- <sup>36</sup> **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – Consus Chemicals, LLC is a "Participating Company" in good standing with the Agricultural Handlers Exposure Task Force (AHETF). Data submitted by the AHETF satisfy this data requirement. A letter of authorization for reliance on AHETF data can be provided upon request.

## Endnotes for Consus Glufosinate Technical Data Matrix

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- <sup>37</sup> **875.2100** – The Jan. 24, 2013 Glufosinate Ammonium Human Health Risk Assessment for Registration Review (DP Barcode D406360) (2013 Human Health RA) and the HED Response to Comments identify these data as a data gap based on the 2012 Exposure Science Advisory Council Guidance Document. It appears that these data have not been called-in, nor have they been submitted, and is currently considered a data gap.
- <sup>38</sup> **850.4100** – Although the studies cited are supplemental, they appear to have been used in the risk assessment and no additional data will be required as per the EFED RA.
- <sup>39</sup> **850.4150** – Although many of the studies cited are supplemental, they appear to have been used in the risk assessment and no additional data will be required as per the EFED RA.
- <sup>40</sup> **850.4400, 850.4500** – Although the studies cited are supplemental, they appear to have been used in the risk assessment and no additional data will be required as per the EFED RA. More recently submitted algal toxicity data are not cited as these data are duplicative of data that satisfy the data requirement, conducted with a test material not required by EPA, or were not called-in by EPA in the Registration Review DCI.
- <sup>41</sup> **835.2120** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- <sup>42</sup> **835.2240** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA.
- <sup>43</sup> **835.2410** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA. Unacceptable data were not cited.
- <sup>44</sup> **835.4100** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA. Unacceptable data were not cited.
- <sup>45</sup> **835.4200** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA.
- <sup>46</sup> **835.4300** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA.
- <sup>47</sup> **835.4400** – The study cited are supplemental but satisfies the data requirement as per the EFED RA. Unacceptable data were not cited.
- <sup>48</sup> **835.1230** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA. Unacceptable data were not cited.
- <sup>49</sup> **835.1410** – The studies cited are acceptable and satisfy the data requirement as per the EFED RA.
- <sup>50</sup> **835.6100** – The studies cited are supplemental or acceptable and satisfy the data requirement as per the EFED RA. Unacceptable or upgradable data were not cited. In addition, more recently submitted dissipation toxicity data are not cited as these data are duplicative of data that satisfy the data requirement and were not called-in by EPA in the Registration Review DCI.
- <sup>51</sup> **835.6200** – Although the study cited was classified as upgradable, it appears that a new study will not be required as per the EFED RA.
- <sup>52</sup> **850.6100** – The EFED RA indicates that the cited studies are acceptable with the submission of an ILV study. This study appears to have been submitted under 49055301 and is cited herein.